

SHURFLO 2088-594-154

SHURflo Industrial Pump - Model 2088-594-154 Instruction Manual

Brand: SHURFLO

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your SHURflo Industrial Pump, Model 2088-594-154. This on-demand positive displacement, 3-chamber diaphragm pump is designed for reliable performance in high-flow, moderate pressure applications. It features a permanent magnet, thermally protected 115V AC motor and is self-priming up to 9 feet vertical. The pump has a maximum operating pressure of 50 PSI and a maximum inlet pressure of 30 PSI.

2. SAFETY INFORMATION

WARNING: This product contains a chemical known to the State of California to cause cancer or birth defects or other reproductive harm.

ELECTRICAL HAZARD: To reduce the risk of electrical shock, ensure the pump is connected to a properly grounded, grounding-type receptacle. This pump is acceptable for indoor use only. Do not use in swimming pool or marine areas unless specifically rated for such environments.

FLAMMABLE LIQUIDS: DO NOT PUMP FLAMMABLE LIQUIDS. NE POMPER PAS DES LIQUIDES INFLAMMABLES.
Pumping liquids other than water is the responsibility of the user and may void the warranty.

- Always disconnect power before servicing the pump.
- Ensure all plumbing connections are secure to prevent leaks.
- Do not operate the pump dry for extended periods.
- Protect the pump from freezing temperatures.

3. PRODUCT OVERVIEW



Figure 1: SHURflo Industrial Pump Model 2088-594-154. This image shows the compact design of the pump, featuring a metallic cylindrical motor housing, a black pump head with inlet/outlet ports, and electrical wiring. The pump is mounted on a blue base plate.

Key Features:

- Thermally protected 115V AC motor.
- Auto shutoff pressure switch reacts to outlet pressure and interrupts power when it reaches the preset shutoff pressure level.
- Positive displacement 3-chamber diaphragm.
- Corrosion-resistant Santoprene valves and diaphragm.
- Robust poly housing.

4. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. Refer to local codes and regulations for specific requirements.

4.1 Mounting:

- Mount the pump in a dry, well-ventilated area, protected from direct sunlight and freezing temperatures.
- Secure the pump to a solid surface using appropriate fasteners to minimize vibration and noise.
- Ensure adequate space around the pump for ventilation and future servicing.

4.2 Plumbing Connections:

- The pump features 1/2 inch NPT ports. Use appropriate fittings and thread sealant for leak-free connections.
- Install a filter on the inlet side to prevent debris from entering the pump.
- Ensure the inlet line is airtight to allow for proper self-priming.
- For optimal performance, keep inlet and outlet plumbing runs as short and straight as possible.

4.3 Electrical Connections:

- The pump operates on 115V AC, 60Hz.
- Connect the pump to a dedicated, properly grounded circuit with appropriate overcurrent protection.
- Refer to the wiring diagram provided with the pump for correct electrical connections. Ensure all connections are secure and insulated.
- The pump draws 104 watts.

5. OPERATING INSTRUCTIONS

5.1 Priming the Pump:

- Ensure all plumbing connections are tight and the inlet line is submerged in the liquid source.
- Open a faucet or valve on the discharge side of the pump to allow air to escape.
- Apply power to the pump. The pump will begin to self-prime, drawing liquid and expelling air.
- Once a steady stream of liquid flows from the open faucet/valve, close it. The pump's pressure switch will then shut off the pump.

5.2 Automatic Operation:

The SHURflo pump is equipped with an auto shutoff pressure switch. When a demand for water occurs (e.g., opening a faucet), the pressure in the system drops, and the pump automatically turns on. When the demand ceases and the system pressure reaches the preset shutoff level (Max. 50 PSI), the pump will automatically turn off.

5.3 Flow Rate:

The maximum flow rate for this pump is approximately 3.3 Gallons Per Minute (GPM).

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your pump.

- **Periodic Inspection:** Regularly check all plumbing connections for leaks and electrical connections for signs of wear or corrosion.
- **Inlet Filter:** If an inlet filter is installed, inspect and clean it periodically to prevent flow restriction and pump damage.
- **Winterization:** In areas subject to freezing temperatures, drain the pump and plumbing lines completely or use an RV/marine non-toxic antifreeze to prevent damage from ice expansion.
- **Diaphragm and Valves:** The pump features corrosion-resistant Santoprene valves and diaphragm, designed for durability. Replacement may be necessary if performance degrades significantly over time.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Pump does not turn on.	No power; tripped circuit breaker; faulty wiring; pressure switch issue.	Check power supply, circuit breaker, and electrical connections. Consult a qualified electrician if unsure.
Low flow or no pressure.	Clogged inlet filter; air leak in inlet line; restricted plumbing; worn diaphragm/valves.	Clean inlet filter. Check all inlet connections for air leaks. Inspect plumbing for kinks or blockages.
Pump cycles on and off rapidly.	Small leak in system; faulty pressure switch; insufficient accumulator tank (if used).	Check for leaks in the entire plumbing system. If using an accumulator tank, check its air charge.
Pump is noisy.	Vibration from mounting; air in system; debris in pump head.	Ensure pump is securely mounted. Bleed air from the system. Inspect pump head for foreign objects (disconnect power first).

8. SPECIFICATIONS

Attribute	Value
Brand	SHURFLO
Model Number	2088-594-154
Voltage	115 Volts AC, 60Hz
Wattage	104 watts
Maximum Flow Rate	3.3 Gallons Per Minute (GPM)
Maximum Switch Pressure	50 PSI
Maximum Inlet Pressure	30 PSI
Self-Priming	Up to 9 feet vertical
Product Dimensions (L x W x H)	8"L x 4"W x 4"H
Item Weight	5 Pounds
Material	Metal (motor), Poly (housing), Santoprene (valves/diaphragm)
Style	Industrial
Power Source	Corded Electric

9. WARRANTY AND SUPPORT

For specific warranty information regarding your SHURflo Industrial Pump, Model 2088-594-154, please refer to the documentation included with your purchase or contact SHURFLO directly. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical support, replacement parts, or further assistance, please contact SHURFLO customer service. Contact details can usually be found on the manufacturer's official website or on the product packaging.

Manufacturer: Shurflo

Contact Information: Please refer to the official SHURFLO website or product packaging for the most current contact details.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question